Selection Guide

3U CompactPCI® CPU Modules ⦂•

 cPCI-3915
 NEW cPCI-3920
 NEW cPCI-3600
 cPCI-3840

Model Name		cPCI-3915		cPCI-3920		cPCI-3600	cPCI-3840
		cPCI-3915A	cPCI-3915B	cPCI-3920A	cPCI-3920B		
CPU and Core Logic	CPU Support	Pentium® M/Celeron® M		Core™ Duo/Core™ 2 Duo		Geode™ LX 800	Pentium® M/Celeron® M
	CPU Speed	2.0 GHz Penitiuml® M 1.5 GHz Celeronl® M		1.2 GHz/1.5 GHz		500 MHz	1.8 GHz Pentium® M 1.3 GHz Celeron® M
	Chipset	Intel® 915 GME		Intel® 3100		AMD CS5536	Intel® 855 GME 6300ESB
	CPU FSB (MHz)	400/533		533/667			400
Form Factor & Bus	PICMG® Spec.	2.0 (R3.0)		2.0 (R3.0), 2.1 (R1.0)		2.0 (R3.0)	2.0 (R3.0), 2.1 (R2.0)
	Form Factor	3U		3U		3U	3U
	Slot Width	Single	Dual	Single	Dual	Dual	Dual
	Host/Peripheral	Host		Host		Host	Host
	PCI™ Bandwidth (max.)	32-bit/33 MHz		32-bit/-33 MHz		32-bit/33 MHz	32-bit/33 MHz
Memory	DIMM Slots	SO-DIMM x 1		--		SO-DIMM x 1	SO-DIMM x 2
	Max Memory	2 GB		2 GB		256 MB + 1 GB	2 GB
	ECC Capability	No		Yes		No	Yes
Display	Graphic Controller	Intel® 915GME		XGI Z11		Geode™ LX 800	Intel® 855 GME
	Interfaces	CRT on Front; DVI, LVDS on RTM		CRT on Front		CRT on Front or Rear	DVI on RTM
Ethernet	Gigabit Ethernet	Yes x 2 (Marvell 88E8052)		2F or 2R (Intel® 82571EB)		--	1F + 1R (Intel® 82546GB)
	10/100 Fast Ethernet	--		--		1F + 1R (Intel® 82551QM)	--
Storage	IDE HDD	--	Yes	--		Yes	Yes
	CompactFlash	Yes		--		1	1
	USB Flash	--		Yes		--	--
	Serial ATA	2 (1F + 1R)		3R	4 (1F+3R)	--	1
	Floppy	--		--		1R	--
I / O	Parallel	--		--		1R	--
	Keyboard/Mouse	--	1 PS/2	--	1 PS/2	1F	--
	Serial	--	2(1F+1R or 2F)	2R	4 (2F+2R)	2 (1F + 1R)	1
	USB	1F+1R	2F+1R	1F	3F	4 USB 2.0 (2F + 2R)	4 USB 2.0 (2F + 1R + 1 onboard)
	Audio	--		--		Line out, Mic-in	Line Out, Mic-in
Other	Features	RS422/485 available		RS422/485 available		--	Dual-Display Support LVDS on RTM
Page Number		4-2		4-3		4-5	4-6

Note: F-front panel; R-RTM

Recommended Combinations of SBC with Chassis ⦂•

Chassis Model	cPCI Bus	Page Number	cPCI-3915 Host Only	cPCI-3920 Host Only	cPCI-3600 Host Only	cPCI-3840 Host Only
cPCIS-1000 series	32-bit/33 MHz	5-5	√	√	√	√
cPCIS-2500 series	32-bit/33 MHz	5-6	√	√	√	√
cPCIS-2600 series	32-bit/33 MHz	5-2	√	√	√	√
cPCIS-2630 series	32-bit/33 MHz	5-3	√	√	√	√
cPCIS-2632 series	32-bit/33 MHz	5-3	√	√	√	√
cPCIS-2633 series	32-bit/33 MHz	5-4	√	√	√	√
cPCIS-2642 series	32-bit/33 MHz	5-4	√	√	√	√

√ Recommended   x Insertion may damage board   - Will not function   (Space) Not recommended

cPCI-3915 Series

3U CompactPCI® Intel® Pentium® M/Celeron® M Processor SBC with Dual-GbE on PCI-Express®

cPCI-3915B   cPCI-3915A   cPCI-R3915T   cPCI-R3915

Pentium M Processor | Gigabit LAN | PCI EXPRESS® | DVI/LVDS | SERIAL ATA

Features

- Low power consumption Intel® Celeron® M/Pentium® M processor up to 2.0 GHz
- Single SODIMM socket DDR2 400/533 MHz, up to 1 GB
- Dual PCI-Express® Gigabit Ethernet
- Multiple storage interfaces: Serial ATA , IDE, CompactFlash®
- Supports high resolution, dual-channel, multiple display interfaces: CRT (up to 2048 x 1536), DVI (up to 165 MB/s), and LVDS (1 x 18 bpp)
- Up to thress USB 2.0 ports, two on the front panel, and one on the rear panel
- Extended temperature option

Ordering Information

cPCI-3915A	1-slot 3U cPCI Pentium® M-Celeron® M SBC with dual-GbE, single-USB, and CRT output
cPCI-3915B	2-slot 3U cPCI Pentium® M-Celeron® M SBC with dual-GbE, dual-USB, dual-COM, and CRT output
cPCI-3915A-ULV/ C10	1-slot 3U cPCI ULV Celeron® M 1.0 GHz SBC with dual-GbE, single-USB, and CRT output
cPCI-3915A-LV/ P14	1-slot 3U cPCI LV Pentium® M 1.4 GHz SBC with dual-GbE, single-USB, and CRT output
cPCI-R3915	Rear Transition module for cPCI-3915 with DVI, LVDS, USB, COM, &SATA, 50 mm
cPCI-R3915T	Rear Transition Module for cPCI-3915, 80 mm

Peripheral Connectivity

	cPCI-3915A		cPCI-3915B		cPCI-R3915	
	Face-plate	On-Board	Face-plate	On-Board	Face-plate	On-Board
CRT	Y (DB-15)	--	Y (DB-15)	--	--	--
DVI	--	--	--	--	Y (DVI-I)	--
LVDS	--	--	--	--	--	Y
LAN	Y (RJ-45) x 2	--	Y(RJ-45) x 2	--	--	--
USB	Y x 1	--	Y x 2	--	Y x 1	--
PS/2	--	--	Y (Combo)	--	--	--
COM	--	--	Y (DB-9) x 2	--	Y (DB-9)	--
SATA	--	Y	--	Y	--	Y
PATA	--	Y (44-pin)	--	Y (44-pin)	--	--
CF	--	Y	--	Y	--	--
Reset	Y	--	Y	--	--	--
LEDs	Y	--	Y	--	--	--

Specifications

CPU / Chipset / RAM

CPU	µFC-PGA Intel® Pentium® M 1.6/1.8/2.0 GHz, up to 2 MB L2 cache
	µFC-BGA Intel® Pentium® M LV 1.4 GHz, 2 MB L2 cache
	µFC-PGA Intel® Celeron® M 1.3/1.5 GHz, up to 1 MB L2 cache
	µFC-BGA Intel® Celeron® M ULV 1.0 GHz, 512 KB L2 cache
FSB	400/533 MHz
Chipset	Intel® 915GME (Grantsdale-GM) GMCH with ICH6
RAM	Support single un-buffered, non-ECC, DDR2 SODIMM, 400/533 MHz Maximum 2 GB System Memory

Bus

Standards	PICMG® 2.0 R3.0
CompactPCI® Bus	32-bit/33 MHz PCI™ bus

BIOS

Chip	Award 4 Mb flash memory
Features	Intel® PXE pre-boot on Ethernet
	Serial Console

Other Features

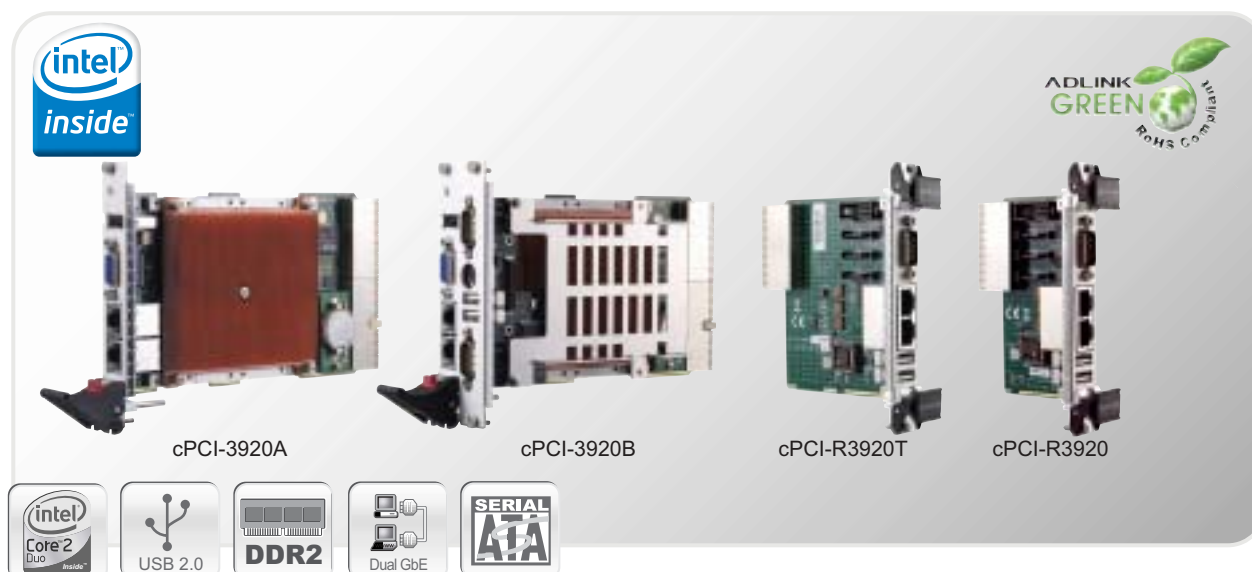| Operating System Compatibility	Microsoft® Windows® 2000/XP, Microsoft® Windows® Server 2003, and Red Hat® Fedora™ Core 4 & 5 (Other OS support upon request)

Mechanical and Environmental

Form Factor	3U CompactPCI®
Dimensions	100 mm x 160 mm (L x W), single or dual-slot width
Operating Temp.	0˚C to 60˚C with external air flow
	-20˚C to 75˚C extended temperature optional
Storage Temp.	-40˚C to 85˚C
Shock	15 G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 G-rms, 5-500 Hz, each axis
	Operation: 0.5 G-rms, 5-500 Hz, each axis
Measured Power Consumption	Typical 30 W (5 V @ 3.1 A, 3.3 V @ 4.4 A)
	Full-load 45 W (5 V @ 5.8 A, 3.3 V @ 4.6 A)
	with Pentium® M 1.8 G, 512 MB DDR2, 20 GB IDE HDD, 512 MB CF under Windows® XP
Certificate or Test	CE, FCC Class A

I/O Interfaces

Display	Intel® 915GME Integrated Graphics
Ethernet	Dual-Marvell 88E8052 Gigabit Ethernet Controllers based on PCI-Express® x1 bus
IDE	Ultra ATA 100/66/33, primary IDE 44-pin and CompactFlash® slot
USB	Three USB 2.0 ports, two on the front panel, and the other one on the rear panel
Serial Port	Two DB-9 connectors on the front panel
Serial ATA	Two onboard SATA connectors, one is on the front board and the other is on the RTM
KB/MS	One PS/2 KB/MS Combo Port
CF	One on-board CompactFlash® Socket

1 AdvancedTCA Products
2 6U cPCI SBC
3 6U cPCI Platforms
4 3U cPCI SBC
5 3U cPCI Platforms
6 SBC & IMB
7 Industrial Chassis
8 Computer On Modules
9 Network Security Appliances
10 Panel PC
11 IPC Accessories

cPCI-3920 Series

3U CompactPCI® Intel® Core™ 2 Duo Processor with 3100 Chipset SBC ⁚•

cPCI-3920A   cPCI-3920B   cPCI-R3920T   cPCI-R3920

USB 2.0   DDR2   Dual GbE   SERIAL ATA

Features

- **Low power Intel® Core™ 2 Duo and Core™ Duo processor**
- **Intel® 3100 chipset**
- **DDR2-400 Registered ECC Soldered SDRAM**
- **Two PCI-Express® Gigabit Ethernet**
- **Supports USB 1.1/2.0 flash module and Serial ATA storage**
- **Three USB 2.0 and three serial ports**

Ordering Information

cPCI-3920A/C2D15/M512	Single-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CD12/M512	Single-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CM10/M512	Single-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/C2D15/M512	Dual-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CD12/M512	Dual-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CM10/M512	Dual-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/C2D15/M1G	Single-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CD12/M1G	Single-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CM10/M1G	Single-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/C2D15/M1G	Dual-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CD12/M1G	Dual-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CM10/M512	Dual-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-R3920	Rear Transition Module for cPCI-3920, 50 mm
cPCI-R3920T	Rear Transition Module for cPCI-3920, 80 mm

Specifications

CPU / Chipset / RAM

CPU & FTB	µFC-BGA Intel® Core™ 2 Duo LV (L7400) 1.5 GHz, FSB 667 MHz, 4 MB L2 cache
	µFC-BGA Intel® Core™ Duo (U2500) 1.2 GHz, FSB 533 MHz, 2 MB L2 cache
	µFC-BGA Intel® Celeron® M Proc LV (423) 1.07 GHz, FSB 533 MHz, 1 MB L2 cache
Chipset	Intel® 3100 (Memory Controller Hub + I/O Controller Hub)
RAM	Single-Channel DDR2-400 Registered ECC
	Soldered 512 MB or 1 GB, up to 2 GB (depends on chip process technology)

Bus

CompactPCI® Standards	PICMG® 2.0 R3.0, PICMG® 2.1 R2.0
CompactPCI® Bus	32-bit/33 MHz CompactPCI® Bus

BIOS

Chip	AMI 16 Mbit FWH Flash Memory
Features	Supports PXE Remote Boot
	Supports Intel® Speedstep® technology
	Supports boot from any boot device
	Serial Console

cPCI-3920 Series

3U CompactPCI® Intel® Core™ 2 Duo Processor with 3100 Chipset SBC ⦂•

I/O Interfaces

Display	XGI Z11 PCI-E®x1 Graphics Controller
	64-bit 2D Accelerator
	Up to 1600 x 1200 at 70 NI 16 M colors
Ethernet	Intel® 82571EB Ethernet controller via PCI-E® x4 for two GbE ports on the front panel or on the rear panel by BIOS selection
USB	Four USB 2.0 channels
	USB 0 9-pin USB pin header, space reserved for horizontal USB flash module
	USB 1 USB port on front panel
	USB 2,3 two USB ports on the 2nd layer of front panel or rear panel
Serial ATA	One SATA connector on board, 2.5" space reserved in 2nd layer
	Three 7-pin SATA connectors on RTM
Serial Port Front	One RS-232, one selectable RS-232/422/485+ ports
Rear	One RS-232 port, one 10-pin header
KB/MS	One PS/2 KB/MS Combo Port

Other Features

Hardware Monitoring	Integrated in W83792AG, Monitoring CPU temperature, Vcore and DC voltages
LED	Three LEDs: Power, WDT, PROCHOT
Watchdog Timer	Integrated in Intel® 3100, Two stage, System Reset and NMI, with programmable interval, 1 ms to 1050 sec.
Operation Systems	Microsoft® Windows® XP, Red Hat® Linux® (other OS support please contact ADLINK for availability)
PCI Express®	One PCI-Express® x 4 or Four PCI-Express® x 1 are routed to J2 for IO expansion

Mechanical and Environmental

Form Factor	3U CompactPCI®
Dimensions	cPCI-3920A: 100 mm x 160 mm (L x W), 1-slot (4HP) wide
	cPCI-3920B: 100 mm x 160 mm (LxW), 2-slot (8HP) wide
Operating Temp.	0˚C to 60˚C with external air flow
	Extended temperature optional
Storage Temp.	-40˚C to 80˚C
Shock	15 G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis
	Operation: 0.5 Grms, 5-500 Hz, each axis
Certificate or Test	CE, FCC class A

⊠ Peripheral Connectivity

	cPCI-3920A		cPCI-3920B		cPCI-R3920	
Function	Face-plate	On-Board	Face-plate	On-Board	Face-plate	On-Board
GbE	Yx2*	--	Yx2*	--	Yx2*	--
USB port 0	--	Y (9-pin)	--	Y (9-pin)	--	--
USB port 1	Y	--	Y	--	--	--
USB port 2,3	--	--	Y	--	Y (optional)	--
VGA	Y	--	Y	--	--	--
COM1/2	--	--	Y(DB-9)	--	--	--
COM3	--	--	–	--	Y (DB-9)	--
COM4	--	--	--	--	--	Y (10-pin)
SATA	--	--	--	Y	--	Yx3
PS/2 KB/MS	--	--	Y	--	--	--
LED	Yx3	--	Yx3	--	--	--
Reset Button	Y	--	Y	--	--	--

Note: * Selected by BIOS setting

1 AdvancedTCA Products

2 6U cPCI SBC

3 6U cPCI Platforms

4 3U cPCI SBC

5 3U cPCI Platforms

6 SBC & IMB

7 Industrial Chassis

8 Computer On Modules

9 Network Security Appliances

10 Panel PC

11 IPC Accessories

cPCI-3600 Series

3U CompactPCI® Processor Blade with AMD Geode™ LX 800 @ 0.9W ⦂•

Fanless   **AMD Geode**   **USB 2.0**   **10/100Mbps LAN**

Features

- **Low Power AMD Geode™ LX 800 @ 0.9W**
- **Optional 256 MB soldered DDR and additional 200-pin SODIMM socket**
- **VGA or CRT on front or rear supporting up to 1920 x 1440 32-bit resolution**
- **Supports two USB 2.0, two Fast LAN , two serial ports and AC'97 Audio**
- **IDE, CompactFlash® and Rear Floppy storage**
- **Under 10W power consumption and Fanless Operation**

Ordering Information

cPCI-3600/LX800	2-slot 3U CompactPCI® with AMD Geode™ LX 800 without memory
cPCI-3600/LX800/256	2-slot 3U CompactPCI® with AMD Geode™ LX 800 and soldered 256 MB DDR400 memory
cPCI-3600/LX800-256/M512	2-slot 3U CompactPCI® with AMD Geode™ LX 800 and soldered 256 MB and 512 MB SODIMM DDR400 Memory
cPCI-3600/LX800/M1G	2-slot 3U CompactPCI® with AMD Geode™ LX 800 and 1 GB SODIMM DDR400 memory without soldered memory
cPCI-R3600	3U 2-slot Rear Transition module for cPCI-3600, 50 mm
cPCI-R3600T	3U 2-slot Rear Transition module for cPCI-3600, 80 mm

Peripheral Connectivity

Function	cPCI-3600		cPCI-R3600	
	Face-plate	On-Board	Face-plate	On-Board
Audio	--	--	Y x 2	--
CF	--	Y	--	--
USB 2.0	Y x 2	--	--	--
Fast LAN	Y	--	Y	--
COM	Y x 2	--	--	--
LPT*	--	--	Y	--
VGA	Y	--	Y	--
PS/2 KB/MS	Y	--	--	--
IDE HDD	--	44-Pin	--	--
LED	Y	--	--	--
Reset button	Y	--	--	--
Floppy*	--	--	--	Y

Note: * LPT and Floppy cannot be used simultaneously, must be selected by BIOS setting

Specifications

CPU / Chipset / RAM

CPU	AMD Geode™ LX 800 CPU 500 MHz with 128 KB L2 cache
Chipset	AMD Geode™ CS5536 companion device
RAM	Supports 256 MB soldered DDR-400 SDRAM and one 200-pin SODIMM socket, up to 1 GB

Bus

CompactPCI® Standards	PICMG® 2.0 R3.0
CompactPCI® Bus	32-bit/33 MHz CompactPCI® Bus

BIOS

Chip	Award-Phoenix 2 Mb flash memory
Features	Intel® PXE pre-boot on Ethernet
	Serial Console
	EEPROM CMOS backup
	USB boot/legacy

I/O Interfaces

Display	Integrated in the AMD Geode™ LX 800
	1920 x 1440 32-bit dpi at 85 Hz
	DB15 VGA interface on front or rear panel by switch selection
Ethernet	Two 10/100BASE-T Ethernet ports supported by Intel® 82551QM controller
IDE	2.5" IDE HDD, and one CompactFlash® socket
Audio	AC'97 Codec Rev 2.3 (rear)
	Line-out port (speaker) Line-in port (MIC)
Serial Port	RS-232 DB-9 connector on front panel
USB	Two USB 2.0
Front Panel I/Os	USB x 2, LAN, COM x 2, VGA, PS/2 KB/MS
Onboard Connectors	CF, IDE, FDD (rear)
Rear Panel I/Os	Mic-In, Line-Out, LAN, LPT, VGA

Other Features

Hardware Monitoring	Supply voltages and CPU temperature
Watchdog Timer	255-level timer generates system reset
Operation Systems	Microsoft® Windows® 2000/XP, Red Hat® Linux® (for other OS support please contact ADLINK for availability)

Mechanical and Environmental

Form Factor	3U CompactPCI®
Dimensions	100 mm x 160 mm (L x W), 2-slot (8 HP) wide
Operating Temp.	0˚C to 60˚C
	Extended temperature optional
Storage Temp.	-40˚C to 80˚C
Shock	15 G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5 to 500 Hz, each axis
	Operation: 0.5 Grms, 5 to 500 Hz, each axis
Certificate or Test	CE, FCC class A
Measured Power Consumption	Full Load 7W (+5 V at 1.4 A); Typical Load 6 W (+5 V at 1.1 A) (AMD Geode™ LX 800 with 1 GB socket memory & 40 GB IDE HDD)

cPCI-3840 Series

3U CompactPCI® Intel® Pentium® M Processor Module

ADLINK GREEN RoHS Compliant

Pentium M Processor | Gigabit LAN | LCD/CRT | USB 2.0 | Audio

Features

- Low power consumption Intel® Pentium® M Celeron® M Processor up to 2 MB L2 cache
- Up to 2 GB PC2700 DDR-SDRAM
- Dual Gigabit Ethernet ports, USB 2.0
- Multiple storage interfaces: IDE, CompactFlash® Serial ATA
- Multiple display interfaces: CRT and DVI on RTM
- AC'97 audio line out and microphone input

Ordering Information

cPCI-3840/P16/M512/H40G	3U cPCI Pentium® M 1.6 GHz CPU module with 512 MB DDR RAM and 40 GB HDD
cPCI-3840/P16/M1G/H40G	3U cPCI Pentium® M 1.6 GHz CPU module with 1 GB DDR RAM and 40 GB HDD
cPCI-R3840	Rear Transition Module for cPCI-3840, 50 mm

Note: Contact us for more CPU, memory and HDD options.

▣ Peripheral Connectivity

Function	cPCI-3840		cPCI-R3840	
	Face-plate	On-Board	Face-plate	On-Board
Serial Port	Y (DB-9)	--	Y (DB-9)	--
USB	Y x 2	--	Y	--
Gigabit Ethernet	Y (RJ-45)	--	Y (RJ-45)	--
IDE	--	Y (44-pin)	--	--
General Purpose LED	Y	--	--	--
Reset button	Y	--	--	--
Speaker Out	Y	--	--	--
MIC In	Y	--	--	--
VGA	Y	--	--	--
SATA	Y	Y	--	--
SATA Power Connector	Y	--	--	--
CF Socket	--	Y	--	--
DVI-D	--	--	Y	--

▣ Specifications

CPU / Chipset / RAM

CPU	Intel® Pentium® M processor 1.8 GHz with 2 MB L2 cache
	Low Voltage Intel® Pentium® M processor 1.1 GHz or 1.6 GHz with 1 MB L2 cache
	Intel® Celeron® M processor 1.3 GHz with 512 KB L2 cache
	Ultra Low Voltage Intel® Celeron® M Processor 600 MHz with 512 KB L2 cache
FSB	400 MHz
Chipset	Intel® 855GME with 6300ESB I/O Controller Hub
RAM	Two 200-pin SODIMM sockets for PC2700 DDR-SDRAM. Up to 2 GB

Bus

Standards	PICMG® 2.0 R3.0, PICMG® 2.1 R2.0
CompactPCI® Bus	32-bit/33 MHz PCI™ bus

I/O Interfaces

Display	Intel® 855GME Integrated Graphics with 32 MB UMA
	DB15 VGA interface on front panel
	DVI on the cPCI-R3840 RTM
Ethernet	Intel® 82546EB Dual-Port Gigabit Ethernet Controller
	One GbE port is on front panel
	Second GbE port is on J2 for rear I/O
IDE	Ultra ATA100/66/33, primary IDE 44-pin IDE connector and CompactFlash socket
Serial ATA	One on-board S-ATA 150 connector
USB	Four USB 2.0 ports: Two USB 2.0 ports on front panel, one on-board
	One USB 2.0 port on J2 for rear I/O
Serial COM	RS-232 DB-9 connector (COM1) on front panel
	RS-232 DB-9 connector (COM2) on J2 for rear I/O
Audio	Line out and Microphone input audio jacks

Other Features

Watchdog Timer	Two stages, SMI/SCI before RESET
LED	Four LEDs: Power, IDE, Hot-swap/GP LED, and WDT/GP LED
Hardware Monitoring	CPU temperature monitoring, over-temperature throttling, +5 V, +3.3 V, +12 V, Vcore voltages monitoring
Operating System Compatibility	Windows® 2000/XP/XP Embedded, Red Hat® Linux® 9.0

Mechanical and Environmental

Form Factor	3U CompactPCI®
Dimensions	100 mm x 160 mm (L x W), dual-slot width
Operating Temp.	0˚C to 55˚C (internal chassis temp, external air flow required)
Storage Temp.	-20˚C to 80˚C
Shock	15 G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis
	Operation: 0.5 Grms, 5-500 Hz, each axis
Measured Power Consumption	24 W (5 V @ 3.16 A, 3.3 V @ 2.4 A) (1.6 GHz Pentium® M CPU, 512 MB RAM, 40 GB HDD)
Compliance	CE, FCC Class A

1 AdvancedTCA Products
2 6U cPCI SBC
3 6U cPCI Platforms
4 3U cPCI SBC
5 3U cPCI Platforms
6 SBC & IMB
7 Industrial Chassis
8 Computer On Modules
9 Network Security Appliances
10 Panel PC
11 IPC Accessories

3U CompactPCI® Peripheral Cards

cPCI-8211/cPCI-8211R
3U CompactPCI®/PXI™ Fast Ethernet Cards

- PICMG® 2.0 32-bit/33 MHz CompactPCI® specifications
- Intel 82559 Ethernet Controller
- Supports 10/100 Base-TX Ethernet Standard
- Compliant with IEEE802.3u Ethernet Specifications
- cPCI-8211 is PXI™ compatable.
- cPCI-8211R a 50 mm RTM with J2 and rear I/O

cPCI-8212/cPCI-8212R
3U CompactPC®I/PXI™ Ultra-2-wide SCSI Cards

- PICMG® 2.0 32-bit/33 MHz CompactPCI® specifications
- LSI/Symbios 53C895 controller
- Single channel Ultra-2-Wide SCSI with LVD, HD-68
- Up to 80 MB/Sec burst transfer rate
- cPCI-8212 is PXI™ compatible.
- cPCI-8212R a 50 mm RTM with J2 and rear I/O

cPCI-8217/cPCI-8217R
3U CompactPCI®/PXI™ VGA/LCD Interface Cards

- PICMG® 2.0 32-bit/33 MHz CompactPCI® specifications
- SMI-721 graphic controller with 8 M built-in VRAM
- Max. 1280 x 1024, 24-bit true color
- On-board 44-pin LCD interface, LCD brightness adjustable
- cPCI-8217 is PXI™ compatible
- cPCI-8217R a 50 mm RTM with J2 and rear I/O

cPCI-7841
Dual-port Isolated CAN Interface Card

- PICMG® 2.0 Rev 2.1
- Dual-independent CAN network operation
- Up to 1 Mbps programmable transfer rate
- 16 MHz CAN controller frequency
- 2500 V$_{RMS}$ optical isolation
- Direct memory mapping to the CAN controllers
- Powerful master interface for CAN bus protocols
- Rear I/O available on cPCI-7841R

cPCI-RTV24
3U CompactPCI® 4-CH Real-time Video Capture Card

- Four color video digitizers operating in parallel
- Up to 120 fps in 64-bit, 66 MHz CompactPCI® bus
- Color PAL / NTSC, monochrome CCIR/ EIA camera support
- On-board TTL I/O lines
- Protection circuit for security issue
- User Friendly ViewCreator utility
- Channel status report LEDs

cPCI-3544
4-Port RS-422/485 Isolated Serial Communications Card

- PICMG® 2.0 Rev 2.1
- Plug-and-play, IRQ & I/O address automatically assigned by PCI™ BIOS
- Four asynchronized communications ports with intelligent buffer
- Four RS-422/485 ports
- 2500 V$_{RMS}$ isolation voltage
- Supports multiple OS
- Surge protectors
- Rugged DB37 connector
- Only supports CompactPCI interface 5 V (I/O)

cPCI-3534/cPCI-3538
4-Port/8-Port Asynchronous Serial Communications Cards

- PICMG® 2.0 Rev 2.1
- Four/Eight asynchronized communications ports with intelligent buffer
- Three/Eight RS-232 ports and one isolated RS-422/485 port with 2500 Vrms isolation voltage
- Surge protector in TXD/RXD signal line
- Supports up to two cards per system
- Rugged DB-37 connector for cPCI-3534
  Rugged DB-62 connector for cPCI-3538
- Rear I/O available on cPCI-3534R/cPCI-3538R

cPCI-3538

cPCI-8273
3U CompactPCI® 3-port IEEE-1394 Card

- PICMG® 2.0 32-bit/33 MHz CompactPCI® specifications
- VIA VT6306 IEEE-1394a controller
- Provides three ports, up to 400 Mbps for each port
- Supports OHCI compliant programming interface
- Rear I/O version available upon request

PXI-8164
Advanced 4-axis Stepping & Servo Motion Control Card

- Pulse output rate up to 6.55 MHz
- Pulse output options: OUT/DIR, CW/CCW
- Support up to 12 cards in one system
- Two-Four axes linear interpolation/two axes circular interpolation
- Multi-axis continuous interpolation
- Change position or speed on-the-fly
- Hardware position compare and trigger with auto-loading FIFO
- High-speed position latch function
- Trapezoidal and S-curve velocity profiles
- Simultaneously start/stop on multiple axes

3U CompactPCI® Data Acquisition Cards

cPCI-9116
64-CH 16-Bit 250 kS/s Multi-Function DAQ Modules

- PICMG® 2.0 Rev 2.1
- 16-bit A/D resolution and up to 250kS/s sampling rate
- 64-CH single-ended or 32-CH differential inputs
- Onboard 1k-sample A/D FIFO
- Programmable gains of x1, x2, x4, x8
- 512-configuration channel-gain queue
- Bus-mastering DMA for analog inputs
- Rear I/O available on cPCI-9116R

cPCI-9112
16-CH 12-Bit 110 kS/s Multi-Function DAQ Modules

- PICMG® 2.0 Rev 2.1
- 12-bit A/D resolution and up to 110 kS/s sampling rate
- 16-CH single-ended or 8-CH differential inputs
- Onboard 1k-sample A/D FIFO
- Bipolar or unipolar analog input ranges
- Programmable gains of x0.5, x1, x2, x4, x8
- 16-CH TTL DI and 16-CH TTL DO
- 2-CH 12-bit multiplying analog outputs
- Rear I/O available on cPCI-9112R

cPCI-6208V/6208A/6216V
8/16-CH 16-Bit Analog Output Modules

- PICMG® 2.0 Rev 2.1
- 16-bit D/A resolution
- 16-CH voltage outputs (cPCI-6216V)
- 8-CH voltage outputs (cPCI-6208A and cPCI-6208V)
- 8-CH current outputs (cCPI-6208A)
- Bipolar 10 V output range
- 4-CH TTL DI and 4-CH TTL DO
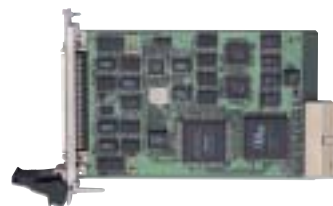- Rear I/O available on the cPCI-6208VR, cPCI-6208AR & cPCI-6216VR

cPCI-6208V

cPCI-7300
80 MB/s High-speed 32-CH DIO Module

- PICMG® 2.0 Rev 2.1
- Up to 80 MB/s transfer rate
- Scatter-gather DMA
- Onboard 64 kb FIFO
- Onboard programmable timer pacer clock
- Supports handshaking DIO transfer mode

cPCI-7200
12 MB/s High-Speed 32-CH DI & 32-CH DO Module

- PICMG® 2.0 Rev 2.1
- 32-CH TTL DI and 32-CH TTL DO
- Up to 12 MB/s transfer rate
- Bus-mastering DMA for both DI and DO
- Onboard programmable timer pacer clock
- Supports handshaking DIO transfer mode

cPCI-7230
16-CH Isolated DI & 16-CH Isolated DO Module

- PICMG® 2.0 Rev 2.1
- 16-CH Isolated DI, and 16-CH Isolated DO
- 5000 VRMS optical isolation
- Sink current up to 500 mA on each isolated output
- Isolated input voltage up to 24 V
- Two external interrupt sources

cPCI-7432/7433/7434
64-CH Isolated DIO Modules

- PICMG® 2.0 Rev 2.1
- 32-CH isolated DI & 32-CH isolated DO on cPCI-7432
- 64-CH isolated DI on cPCI-7433
- 64-CH isolated DO on cPCI-7434
- Up to 5000 VRMS Optical Isolation
- Sink current up to 500 mA on each isolated output
- Rear I/O available

cPCI-7432

cPCI-7252
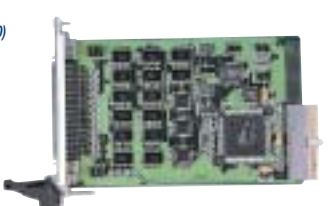### 8-CH Relay Outputs & 16-CH Isolated DI Module

- PICMG® 2.0 Rev 2.1
- 8-CH SPDT relays
- Nonlatching relays
- Onboard relay driving circuits
- Relay output status read back
- 16-CH isolated DI
- Onboard low-pass filtering for DI
- Dual programmable interrupt sources

cPCI-7248
48-CH DIO & Timer/Counter Modules

- PICMG® 2.0 Rev 2.1
- 48-CH digital TTL inputs/outputs
- Emulates four/two/one industry standard 8255 PPI (mode 0)
- Output status read back
- Onboard 8254 timer/counter chip
- Multiple Programmable interrupt sources
- +12 V and +5 V power available on the connector

cPCI-8554 Series
12-CH 16-Bit Timer/Counter & DIO Modules

- PICMG® 2.0 Rev 3.0
- Four 82C54 programmable timer/counter chips
- Up to 12-CH 16-bit timer/counter
- 1-CH 32-bit cascaded timer based on 8 MHz clock source
- Four programmable clock sources for each timer/counter
- Programmable de-bounce filters for external clock & external interrupt inputs